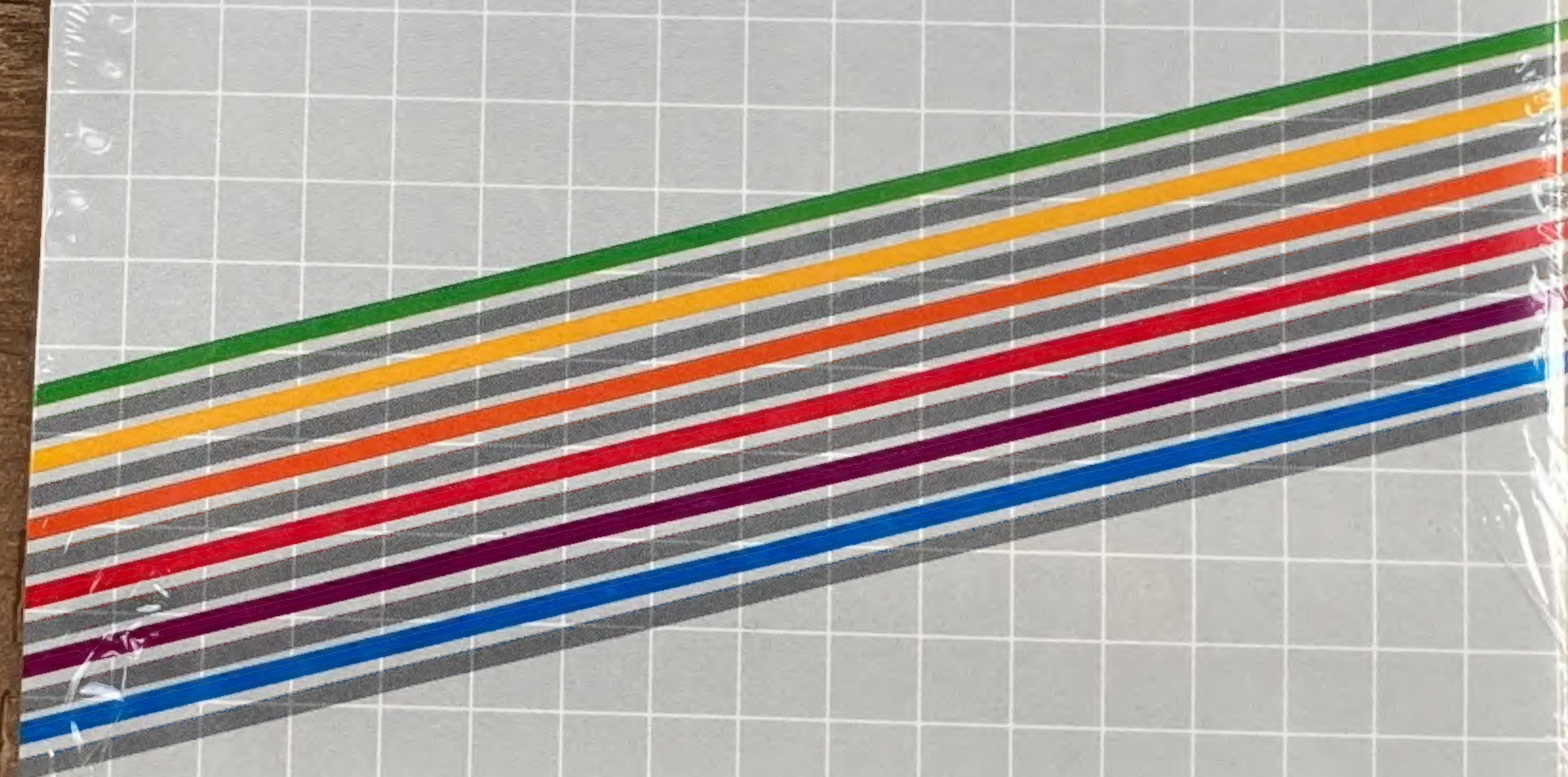




PSORT  
C2B0003

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652-20



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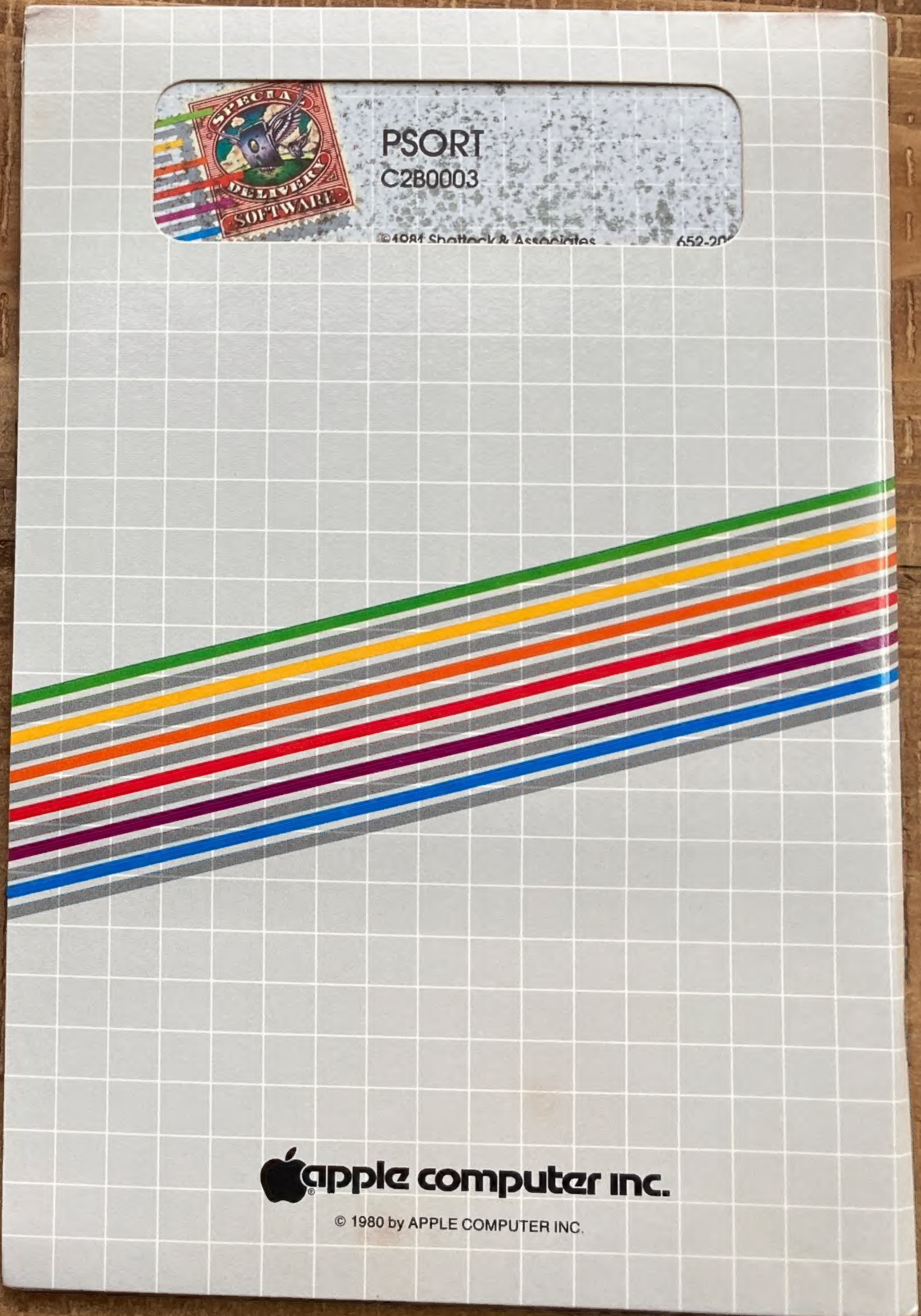


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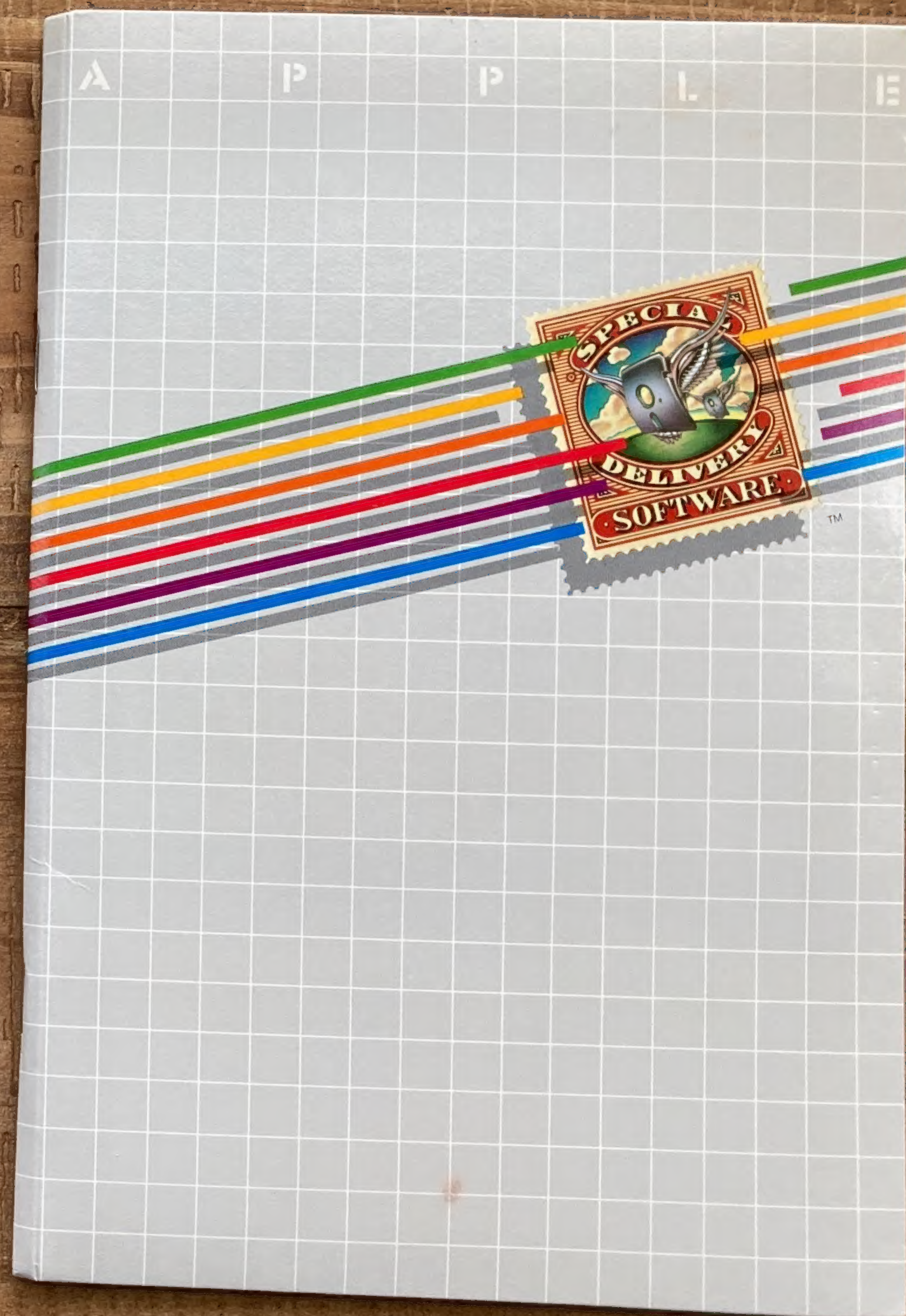














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which are to be used to determine whether a record is to be included or excluded. Entering "no" will end the execution of SORTPARM and write the parameter file.

Prompt: I(nclude, or E(xclude?

Response: Enter the appropriate letter.

Prompt: Field number:

Response: This specifies which of the fields is to be assigned the following string value which will be used as the comparison value for either including or excluding the record. Enter zero to terminate the sequence. The distributed version of PSORT allows 25 selection values to be specified.

Prompt: Selection value:

Response: Enter a string which is to be used as the comparison value for the particular field.

### Console Input

Rather than execute the SORTPARM program to build the parameter file, the user may enter the parameters at the execution time of PSORT. The same questions as described previously are asked, except for the following:

No parameter file name is requested.

No request is made for the record length (for fixed length fields) or number of fields (for variable length fields).

### Collating Sequence

The collating sequence is the ASCII character set. Because only exit fields (or their content-equivalent "file of strings") are read, numbers are also read as characters. This does not cause any difficulty for sorting because, for example, "123" is less than "234", as expected. Because the blank (space) character is less than the digits, "12" is less than "112", also as expected. Hence, numbers should be right justified, blank or zero filled. Decimal numbers should have the decimal points aligned.

### Errors

Some error checking is performed by PSORT. If any of the parameter, sort input, or merge input files are not found, an appropriate error message is displayed, and the program terminates.

In the case of the merge input files, all of the files are checked to see if they exist. All that are missing are reported before the program terminates.

If, during sorting, the number of intermediate files exceeds the limit, the job is terminated. The program can be recompiled with a greater limit, or the input file converted to two (or more) files. These files can then be resorted and the resultant sorted files merged.

Any other errors (caused by perhaps invalidated input, or, for example, no disk space) will be detected by the Pascal system, and will result in the whole system being re-initialized.

### Capacity

The Apple II based system will be able to sort approximately 1500 records of 80 characters each, which is close to the storage capacity



## APPENDIX B

### NOTE FOR USERS OF APPLE PASCAL

The supplied disk is name "PSORT:" and contains the following files:

PSORT1.TEXT	- Source code for stand-alone program, Part 1.
PSORT2.TEXT	- " " " " " " 2.
PSORT3.TEXT	- " " " " " " 3.
PSORT4.TEXT	- " " " " " " 4.
SORTPARM.TEXT - Source code for parameter file building program.	
PSORTP1.TEXT	- Source for use as a procedure, Part 1.
PSORTP3.TEXT	- " " " " " " 3.
PSORTP4.TEXT	- " " " " " " 4.

(PSORT2.TEXT is identical with the omitted PSORTP2.TEXT).

PSORT.TEXT	- Include file calls for PSORT1..4.
PSORTP.TEXT	- " " " " " PSORTP1..4.

TESTPSORT.TEXT - Skeleton code showing use of PSORT as a procedure.

PSORT.CODE - Object code for stand-alone execution of PSORT.

SORTPARM.CODE - Object code for the parameter file building program.

Compilation of PSORT will require that the compiler is in swapping mode, i.e., by using "(\*\$S+\*)" at the start of the program (this is included in PSORT.TEXT and TESTPSORT.TEXT).

All responses to questions MUST be in upper case. Users with lower case facilities may wish to modify the code. Change code of the type "IF INCHAR IN ["N"] THEN ..." to "IF INCHAR IN ["N","n"] THEN ...".

The User Manual outlines a method of increasing the number of intermediate workfiles by simply moving some comment delimiters. The Apple source code does not include the text for the extra intermediate files. Thus, if the number of intermediate workfiles is to be increased, then the extra code would need to be typed in. This situation should not arise, however, because the maximum size of a file which can be sorted using the distributed values will exceed the disk space which is available.



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